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(YOR.235)

LISTING OF THE CLAIMS:

A complete listing of the claims is provided below for the Examiner's convenience. No claims have been amended and no new matter has been added.

1.   (Previously presented) A data transferring apparatus for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, said first apparatus including:

a scheduler for merging a plurality of drawing commands meeting a certain requirement and for translating said merged drawing commands into a single drawing command, thereby reducing a volume of said transfer data; and

a communication controller for generating transfer packets each including at least one of one or more said plurality of drawing commands whose amount is within a certain predetermined range and one or more said merged drawing commands,

said communication controller transferring said generated transfer packets to said second apparatus.

2.   (Previously presented) A data transferring apparatus for transferring transfer packets each including one or more transfer data as objectives of transfer from a first apparatus to a second apparatus, said each transfer data including commands indicating processes against a preliminarily assigned area, said first apparatus including:

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means for merging a plurality of drawing commands meeting a certain requirement

and for translating said merged drawing commands into a single drawing command,

thereby reducing a volume of said transfer data;

means for generating transfer packets each including at least one of one or more said

plurality of drawing commands whose amount is within a certain predetermined range and

one or more said merged drawing commands; and

means for transferring said generated transfer packets to said second apparatus.

3.   (Original) The apparatus of claim 2, wherein said means for merging comprises a

scheduler for judging whether an offset can be performed by merging an increment of data

volume caused by a change of drawing commands.

4.   (Original) The apparatus of claim 3, wherein if said scheduler judges that said offset

is possible, then said scheduler changes the drawing commands.

5.   (Original) The apparatus of claim 3, wherein said means for generating comprises a

communication controller which generates said transfer packets which contain merged

drawing commands which are more than a predetermined data volume in quantity.

6.   (Original) The apparatus of claim 2, wherein said first apparatus comprises a

computer and said second apparatus comprises a display apparatus.

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7.   (Previously presented) A data transferring method for transferring transfer packets
each including one or more transfer data as objectives of transfer from a first apparatus to a
second apparatus, said each transfer data including commands indicating processes against
a preliminarily assigned area, and said first apparatus being capable of:

      merging a plurality of drawing commands meeting a certain requirement and
translating said merged drawing commands into a single drawing command, thereby
reducing a volume of said transfer data;

      generating transfer packets each including at least one of one or more said plurality
of drawing commands whose amount is within a certain predetermined range and one or
more said merged drawing commands; and

      transferring said generated transfer packets to said second apparatus.

8.   (Original) The method of claim 7, wherein said merging comprises judging whether
an offset can be performed by merging an increment of data volume caused by a change of
drawing commands.

9.   (Original) The method of claim 8, wherein if said judging judges that said offset is
possible, then the drawing commands are changed.

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10.   (Original) The method of claim 7, wherein said first apparatus comprises a

computer and said second apparatus comprises a display apparatus.

11.   (Previously presented) A medium for mediating a program for transferring transfer

packets each including one or more transfer data as objectives of transfer from a first

apparatus to a second apparatus, said each transfer data including commands indicating

processes against a preliminarily assigned area, and said first apparatus being capable of

making a computer execute:

merging a plurality of drawing commands meeting a certain requirement and

translating said merged drawing commands into a single drawing command, thereby

reducing a volume of said transfer data;

generating transfer packets each including at least one of one or more said plurality

of drawing commands whose amount is within a certain predetermined range and one or

more said merged drawing commands; and

transferring said generated transfer packets to said second apparatus.

12.   (Original) The medium of claim 11, wherein said merging comprises judging

whether an offset can be performed by merging an increment of data volume caused by a

change of drawing commands.

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13.   (Original) The medium of claim 12, wherein if said judging judges that said offset is

possible, then the drawing commands are changed.

14.   (Original) The medium of claim 12, wherein said first apparatus comprises a

computer and said second apparatus comprises a display apparatus.

15.   (Previously presented) The apparatus of claim 1, wherein said scheduler generates

said drawing commands to be transferred from said first apparatus to said second apparatus

by combining an effect of said plurality of drawing commands which affect a same area in a

predetermined short period of time on a frame buffer.

16.   (Previously presented) The apparatus of claim 2, wherein said means for merging

generates said drawing commands to be transferred from said first apparatus to said second

apparatus by combining an effect of said plurality of drawing commands which affect a same

area in a predetermined short period of time on a frame buffer.

17.   (Previously presented) The method of claim 7, wherein said merging further

comprises generating a plurality of drawing instructions to be transferred from said first

apparatus to said second apparatus by combining an effect of a plurality of drawing

instructions which affect a same area in a predetermined short period of time on a frame

buffer.

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18.   (Previously presented) The apparatus of claim 1, wherein said communication

controller transfers only updated areas on a frame memory by analyzing graphics

commands in a form of drawing commands to said second apparatus.

19.   (Previously presented) The apparatus of claim 2, wherein said means for

transferring transfers only updated areas on a frame memory by analyzing graphics

commands in a form of drawing commands to said second apparatus.

20.   (Previously presented) The method of claim 7, wherein said transferring comprises

transferring only updated areas on a frame memory by analyzing graphics commands in a

form of drawing commands to said second apparatus.

21.   (Previously presented) The apparatus of claim 2, wherein said first apparatus

includes a first drawing engine and said second apparatus includes a second drawing engine.

22.   (Previously presented) The apparatus of claim 2, wherein said first apparatus and

said second apparatus include redundant drawing engines.

23.   (Previously presented) The apparatus of claim 2, wherein said first apparatus

comprises a computer including a first drawing engine, and

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wherein said second apparatus comprises a display apparatus including a second

drawing engine.

24.   (Previously presented) The apparatus of claim 21, wherein said first drawing engine

and said second drawing engine each include a dedicated frame memory unit.

25.   (Previously presented) The apparatus of claim 21, wherein said first drawing engine

and said second drawing engine generate identical images including a different timing due to

at least one communication error from said first apparatus to said second apparatus.